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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/816,085 | 04/01/2004 | Fabrice Guitton | S1022.81114US00 | 9458 |
| 23628 | 7590 | 06/28/2005 | EXAMINER | |
| WOLF GREENFIELD & SACKS, PC FEDERAL RESERVE PLAZA 600 ATLANTIC AVENUE BOSTON, MA 02210-2211 | | | CHEN, SHIH CHAO | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2821 | |

DATE MAILED: 06/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

HA

Office Action Summary

Application No.

10/816,085

Applicant(s)

GUITTON ET AL.

Examiner

Shih-Chao Chen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☒ Claim(s) 8-10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 April 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4/1/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. Figure 1-2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claim 2 is objected to because of the following informalities: in line 1, "The inductive element of claim 1" should be changed to --The multi-band inductive circuit of claim 1--. Appropriate correction is required.
3. Claim 2 is objected to because of the following informalities: in line 3, "an inductive elements" should be changed to --inductive elements--. Appropriate correction is required.
4. Claim 3 is objected to because of the following informalities: in line 1, "The inductive element of claim 1" should be changed to --The multi-band inductive circuit of claim 1--. Appropriate correction is required.

5. Claim 4 is objected to because of the following informalities: in line 1, "The inductive element of any of claim 1" should be changed to --The multi-band inductive circuit of claim 1--. Appropriate correction is required.

6. Claim 4 is objected to because of the following informalities: in lines 1-2, "wherein the value of the first inductance" should be changed to wherein --a value of the first inductance--. Appropriate correction is required.

7. Claim 5 is objected to because of the following informalities: in line 1, "The inductive element of claim 4" should be changed to --The multi-band inductive circuit of claim 4--. Appropriate correction is required.

8. Claim 5 is objected to because of the following informalities: in lines 1-2, "wherein the value of the second inductance" should be changed to wherein --a value of the second inductance--. Appropriate correction is required.

9. Claim 6 is objected to because of the following informalities: in line 1, "The inductive element of claim 4" should be changed to --The multi-band inductive circuit of claim 4--. Appropriate correction is required.

10. Claim 7 is objected to because of the following informalities: in line 1, "The inductive element of claim 6" should be changed to --The multi-band inductive circuit of claim 6--. Appropriate correction is required.

11. Claim 8 is objected to because of the following informalities: in lines 1-2, "the inductive element of any of claim 1" should be changed to --the multi-band inductive circuit of claim 1--. Appropriate correction is required.

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12. Claim 9 is objected to because of the following informalities: in lines 1-2, "the inductive element of any of claim 1" should be changed to --the multi-band inductive circuit of claim 1--. Appropriate correction is required.

13. Claim 10 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. While "A multi-band radiofrequency transceiver chain " is the preamble of the claim, the claimed limitation "impedance matching elements of claim 8" does not constitute any further limitation. Therefore, it is not treat on the merit.

Claim Rejections - 35 USC § 112

14. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

15. Claims 2, 4-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

16. In claim 2, what is meant by "n" in the claim.

17. Claim 4 recites the limitation "the inductive element" in line 3. There is insufficient antecedent basis for this limitation in the claim.

18. Claim 5 recites the limitation "the two elements" in line 3. There is insufficient antecedent basis for this limitation in the claim.

19. Claim 5 recites the limitation "the inductive element" in line 5. There is insufficient antecedent basis for this limitation in the claim.

20. Claim 6 recites the limitation "the inductive element" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

21. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

22. Claims 1-3 are rejected under 35 U.S.C. 102(a) as being anticipated by Wu et al. (ELECTRONICS LETTERS 31st January 2002 Vol. 38 No. 3).

Regarding claim 1, Wu et al. teaches in figures 1-2 a multi-band inductive circuit in an integrated circuit, forming a dipole and comprising at least two parallel branches respectively comprising a first inductance [L_1] and a second inductance [L_2] in series with a capacitor [$C1$], the two inductances being coupled to each other (See Fig. 1).

Regarding claim 2, Wu et al. teaches in figures 1-2 the multi-band inductive circuit of claim 1, wherein n (i.e. $n=2$) parallel branches each comprise an inductance [L_1, L_2], $n-1$ of these branches further comprising a series capacitor [$C1$], to form inductive elements with n bands.

Regarding claim 3, Wu et al. teaches in figures 1-2 the multi-band inductive circuit of claim 1, wherein the inductances [L_1, L_2] are formed by superposed planar conductive windings.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Friday from 7 AM to 4:30 PM, First Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shih-Chao Chen
Primary Examiner
Art Unit 2821

Shih-Chao Chen
SHIH-CHAO CHEN
PRIMARY EXAMINER

SXC
June 24, 2005